AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- (Cancelled)
- (Previously Presented) The air refrigerant type freezing and heating apparatus according to claim 3, wherein said compressing mechanism is composed of a single compressor.
- 3. (Currently Amended) An air refrigerant type freezing and heating apparatus comprising:
 - a compressing mechanism which compresses an air refrigerant:
- a heating unit which heats a first object disposed directly with a heating chamber for heating the heating chamber, the heating unit being fluidly connected with said compressing mechanism for receiving air refrigerant therefrom by said air refrigerant outputted from said compressing mechanism:
 - a heat exchanger which cools said air refrigerant outputted from said heating unit;
 - a turbine which expands said air refrigerant outputted from said heat exchanger;
- a cooler-which cools a second object<u>cooling chamber</u> different from-said first-object by said through which air refrigerant outputted from said turbine flows; and
- a heat recovery unit which recovers heat of said air refrigerant outputted from said heating unit and heats said air refrigerant flowing between said compressing mechanism and said heating unit.
- (Currently amended) The air refrigerant type freezing and heating apparatus according to claim 3, further comprising:
 - a second heating unit which heats an object the heating chamber by heating said air refrigerant flowing on a subsequent stage side of said heat recovery unit and on a prior stage side of the heat exchanger.

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(Currently amended) An air refrigerant type freezing and heating apparatus comprising: a compressing mechanism which compresses an air refrigerant;

a heating unit which is disposed directly with a heating chamber for heating the heating chamber, the heating unit being fluidly connected with said compressing mechanism for receiving air refrigerant therefrom which heats a first object by said air refrigerant outputted from said compressing mechanism;

a heat exchanger which cools said air refrigerant outputted from said heating unit:

a turbine which expands said air refrigerant outputted from said heat exchanger;

a <u>cooling chamber</u> eeoler which cools a second object different from said first object by <u>through which</u> said air refrigerant outputted from said turbine <u>flows</u>; and

a heater which heats said air refrigerant flowing in said heating unit.

 (Previously Presented) The air refrigerant type freezing and heating apparatus according to claim 5. wherein said heater is an oven.

(Cancelled)

 (Previously Presented) The air refrigerant type freezing and heating apparatus according to claim 10, wherein the compressing mechanism is a compressor which rotates coaxially with said turbine.

said air refrigerant taken in from said cooler is supplied to a low-temperature side flow passage of said heat exchanger, and

said air refrigerant outputted from said low-temperature side flow passage is directly supplied to said compressor.

- 9. (Previously Presented) The air refrigerant type cooling and heating system according to claim 10, wherein said compressing mechanism is composed of a single compressor.
- (Currently amended) An air refrigerant type cooling and heating system comprising: an air refrigerant type freezing and heating apparatus, which includes: a compressing mechanism which compresses an air refrigerant;

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a heating unit <u>which is disposed directly with a heating chamber for heating the heating chamber, the heating unit being fluidly connected with said compressing mechanism for receiving air refrigerant therefrom which heats a first object by said air refrigerant outputted from said compressing mechanism:</u>

- a heat exchanger which cools said air refrigerant outputted from said heating unit;
- a turbine which expands said air refrigerant outputted from said heat exchanger; and
- a <u>cooling chamber through which</u> cooler which cools a second object different from said first object by said air refrigerant outputted from said turbine flows;
- a regenerator which is filled with an absorbent absorbing which absorbs a refrigerant different from the air refrigerant, heats and evaporates said refrigerant mixed in said absorbent by using said air refrigerant outputted from said compressing mechanism;
 - a condenser which condenses said refrigerant evaporated by said regenerator;
- an evaporator which evaporates said refrigerant condensed by said condenser and cools a third-object cooling device by heat of evaporation; and
- an absorber which allows said absorbent outputted from said regenerator to absorb said refrigerant evaporated by said evaporator and outputs said absorbent to said regenerator; and wherein said air refrigerant type freezing and heating apparatus further includes:
- a heat recovery unit which recovers heat of said air refrigerant outputted from said heating unit and heats said air refrigerant flowing between said compressing mechanism and said heating unit.
- 11. (Currently amended) The air refrigerant type cooling and heating system according to claim 10, wherein said air refrigerant type freezing and heating apparatus further includes:
 - a second heating unit which heats an object the heating chamber by heating said air refrigerant flowing on a subsequent stage side of said heat recovery unit and on a prior stage side of the heat exchanger.
- 12. (Currently amended) An air refrigerant type cooling and heating system comprising: an air refrigerant type freezing and heating apparatus, which includes:
 - a compressing mechanism which compresses an air refrigerant;
- a heating unit <u>which is disposed directly with a heating chamber for heating the heating</u> chamber, the heating unit being fluidly connected with said compressing mechanism for

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receiving air refrigerant therefrom which heats a first object by said air refrigerant outputted from said compressing mechanism:

- a heat exchanger which cools said air refrigerant outputted from said heating unit;
- a turbine which expands said air refrigerant outputted from said heat exchanger; and
- a <u>cooling chamber through which</u> cooler which cools a second object different from said first object by said air refrigerant outputted from said turbine flows;
- a regenerator which is filled with an absorbent absorbing which absorbs a refrigerant different from the air refrigerant, heats and evaporates said refrigerant mixed in said absorbent by using said air refrigerant outputted from said compressing mechanism;
 - a condenser which condenses said refrigerant evaporated by said regenerator;
- an evaporator which evaporates said refrigerant condensed by said condenser and cools a third-object cooling device by heat of evaporation;
- an absorber which allows said absorbent outputted from said regenerator to absorb said refrigerant evaporated by said evaporator and outputs said absorbent to said regenerator; and wherein said air refrigerant type freezing and heating apparatus further includes:
 - a heater which heats said air refrigerant flowing in said heating unit.
- (Currently amended) The air refrigerant type cooling and heating system according to claim 12, wherein said heater-is heating chamber comprises an oven.